

ABSTRACT

This invention relates to an air extraction device (12) for a work station (14), especially one where food is subjected to heat, for example a grill. One air inlet (36, 38) each is provided on each side of the work station (14), said inlets being connected to a fan (26) and a filter system (28) and communicating with them and with an area (42) disposed above the work station (14) in a closed air cycle (48) that produces an air blast (44) in said area. About 75% of the air are continuously discharged from the air cycle via an air discharge (50) so that only 25% of the air form the air blast (44). The discharged portion of the air is continuously replaced by taking in ambient air via the down-stream air inlet (38) and/or via a separate, additional air inlet (63). The filter system (28) is provided with a grease trap filter (30) upstream of the fan and an odor filter (32) downstream of the fan. The inventive air extraction device prevents odors and grease from reaching the surroundings of the work station and allows for a simple and unproblematic maintenance of the filters.